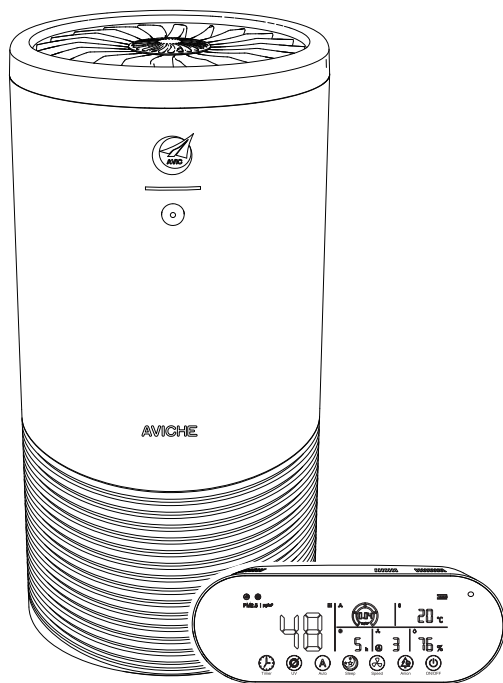


AVICHE

Super Air Purifier

Model: Y4A



User Manual

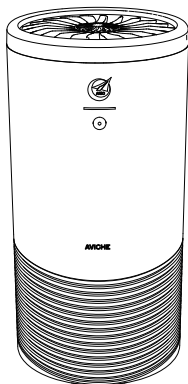
Version 1.1

Thank you for choosing AVICHE super air purifier.
Please read this User Manual carefully before use and
maintenance, and keep it properly for future reference.

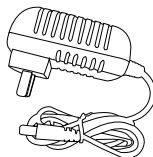
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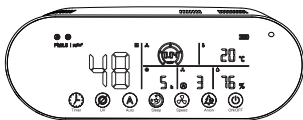
I. Device and Accessories



Main Unit (including Filter) x 1



Intelligent Control Terminal Adapter x 1



Intelligent Control Terminal x 1



User Manual (including Warranty Card) x 1

Figure 1 Packing List

Please check first whether the appearance of the product is good and whether the variety and quantity of accessories are consistent with the Packing List. Please contact the supplier or manufacturer in time for any defects.

II. Product Introduction

1. Product Advantages

- The conventional negative ion has a short transfer distance and can not pass the blood-brain barrier. AVICHE super air purifier uses the technology of Nano-fullerene small particle diameter negative ion technology and simulates the theory of large forest purification to create a quantity of 20 million within 0 meter, 6.3 million within 1 meter, and 0.5 million within 3 meters, with the transfer distance reaching 5 meters.
- The combined “mobile intelligent control terminal” can real-time monitor the numerical changes of PM2.5, formaldehyde and other chemical pollutants for any location in the room, to truly achieve the integration of monitoring and control.
- The high-quality sensors can display rapidly in a digital way the air quality indicators like PM2.5, chemical pollutants, temperature, humidity and others.
- The patented new technology air duct system can achieve a “fully and round” air intake with 360° zero dead angle, provide long distance air supply, and balance the indoor air in the fastest way, with its energy efficiency surpassing the highest standards in China.
- With the combination of fullerene negative oxygen ion green purification technology, exclusive customized large capacity modified activated carbon technology, and high efficiency filter of catalytic technology for removing formaldehyde, the pollutant removal effect is truly remarkable.
- Provide a double efficient sterilization by UV and lysozyme.
- High efficient super large bamboo fiber+ bamboo charcoal + HEPA + Photocatalyst composited filter.
- The main unit can be used alone to use the included buttons to adjust the fan speed.
- Designed with reference to the latest national standards, all the indicators have met or surpassed the highest value and grade of national regulation, and the testing reports by authorities can be provided.
- It can be used without a filter. With fan speed of Level 1 and without filter to use, it can reduce the indoor PM2.5 to 0, creating an indoor air environment like virgin forest.

2. Purification Theory

- **Natural Bamboo Fiber Adsorption:** Natural Bamboo Fiber Anti-bacterial and Odor-removing Function, Bamboo fiber has Bamboo Kun, which is a natural anti-bacterial material and can help kill bacteria and inspect preven-

tion. and moreover, the super fine hole structure of bamboo fiber has strong adsorption ability to help remove odor.

- **HEPA Filter Purification:** 99.97% of the microscopic particles (0.3 microns and larger) can be captured while pass through the HEPA filter. It is highly efficient at tobacco smoke, dust and bacteria etc.
- **Bamboo Active Charcoal Adsorption:** Bamboo active charcoals have strong adsorption ability with loose porous molecular structure. It can purify air, remove odor, absorb humidity, resist mucedine, restrain bacteria and deworm, and highly absorb formaldehyde, benzene, phenols,sulphide,hydrides etc.
- **Photocatalyst and UV Lamp Purification:** Such a combination can achieve a strong catalytic degradation of toxic and harmful gases like formaldehyde, toluene and others, kill a variety of bacteria, and decompose and treat the toxins released from bacteria or fungi harmlessly.
- **Fullerene Micro Negative Ion Purification:** It can capture small particle dust, and make it combine with the positively charged particles like bacteria, dust, and smoke to precipitate, so as to remove particles below 1µm effectively.

3. Product Parts Introduction

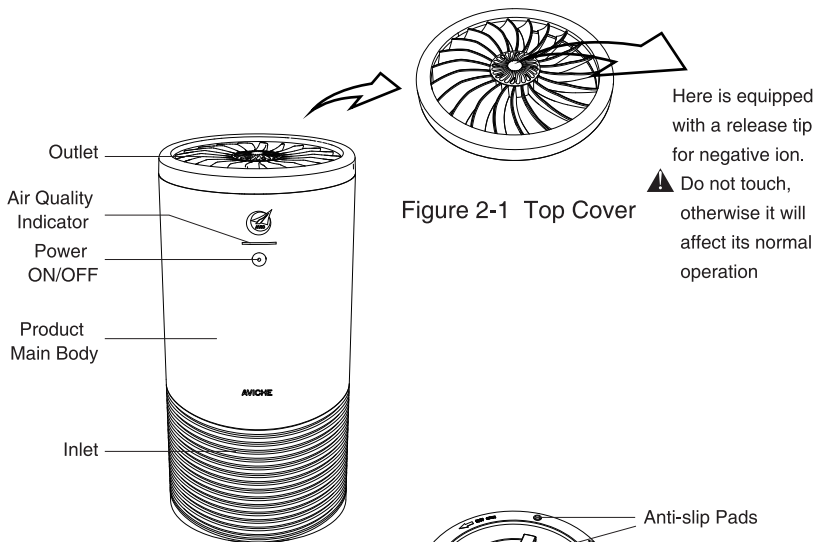


Figure 2-1 Top Cover

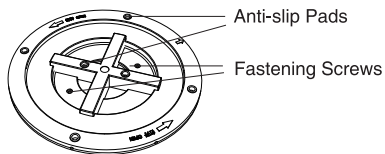


Figure 2-2 Bottom Cover

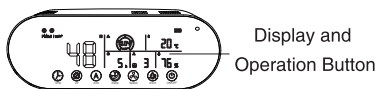


Figure 2-3
Front View of the
Intelligent Control Terminal

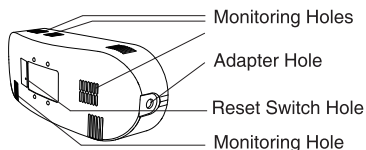


Figure 2-4
Rear View of the
Intelligent Control Terminal

Figure 2 Product Parts Introduction

4. Performance Parameters

a. Main Unit

Type	Specification			
$CADR_{PM}$	503.1m ³ /h			
$CADR_{HCHO}$	162.2m ³ /h			
CCM_{PM}	P4			
CCM_{HCHO}	F4			
Purification Efficiency	High Efficiency Grade (η_{PM} : 11.43 m ³ /(W·h))			
	High Efficiency Grade (η_{HCHO} : 3.69 m ³ /(W·h))			
Noise Level	<70dB			
Applicable Space	Up to 100m ²			
Sterilization Rate	>99.9%			
Negative Ion Release Rate	20 million PCS/cm ³			
Input Voltage	AC110-240V 50Hz/60Hz			
Input Power	50W			
Instructions	Digital Real-time Display			
Fan Speed	1-2-3-4-JET (5 Levels)			
Product Dimension	312.5 (diameter) × 627 (height) mm			
Net Weight	9.4kg			
Main Raw Material	ABS			
Filter	Bamboo fiber+ bamboo charcoal + HEPA + Photocatalyst composited filter inner diameter 155 × external diameter 260 × height 390mm			
Intelligent Control Terminal K3 Type	Laser Dust Sensor			
	HCHO (formaldehyde) Sensor			
	Temperature and Humidity Sensor			
Purification Methods	Fullerene Micro Negative Ion Purification			
	Bamboo Charcoal Purification			
	Bamboo Fiber HEPA Filter			
	Photocatalytic Degradation			
	UV Lamp Sterilization			
Air Quality Indicator	Excellent	Moderate	Unhealthy	Very Unhealthy
	Green	Blue	Yellow	Red

b. Intelligent Control Terminal

Measurement Object	Measurement Range	Resolution	Accuracy
PM2.5	0-500 $\mu\text{g}/\text{m}^3$	1 $\mu\text{g}/\text{m}^3$	$\pm 10\%$ @ 100~500 $\mu\text{g}/\text{m}^3$ $\pm 10\mu\text{g}/\text{m}^3$ @ 0~100 $\mu\text{g}/\text{m}^3$
Temperature	-20 $^{\circ}\text{C}$ ~ +50 $^{\circ}\text{C}$	1 $^{\circ}\text{C}$	$\pm 1^{\circ}\text{C}$
	-4 $^{\circ}\text{F}$ ~ +122 $^{\circ}\text{F}$	1 $^{\circ}\text{F}$	$\pm 1^{\circ}\text{F}$
Humidity	0%~99%RH	1%RH	$\pm 3\%$ @ 25 $^{\circ}\text{C}$, 20%~80%RH
Formaldehyde (HCHO)	0~6.25 mg/m^3	0.01 mg/m^3	—
Air Quality Index Indicator	Excellent - Green Light	Unhealthy - Yellow Light	
	Moderate - Blue Light	Very Unhealthy – Red Light	

Power Supply	DC9V/1A
Battery Capacity	2200mAh
Battery Life	16h
Charging Time	5h
Service Life	2 years (in air)
Display	Digital display
Dimension	L181mm×W45mm×H67mm
Net Weight	500g

III. Quick Use Guide

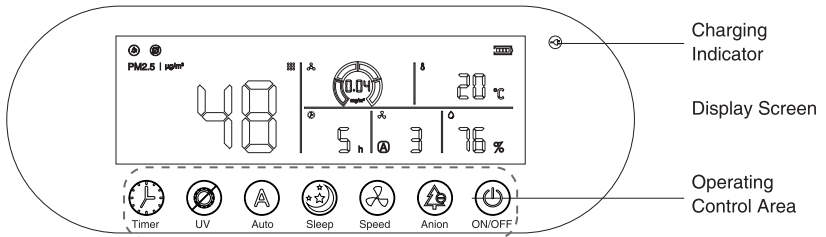


Figure 3 Intelligent Control Terminal Panel

1. Precautions for use

Please charge it before the intelligent control terminal is used for the first time.

2. Charging indicator

When charging, the indicator light is red.

3. Reset Switch

If the Remote Control Display is not behaving properly, set the reset switch from ON to OFF, and then back to ON to complete the reset.

4. Pairing

The intelligent control terminal and the main unit should be used one-for-one together, as the pairing has already been completed in factory. If you need to pair later, please refer to the following pairing method.

Pairing Method: Long press the “ON/OFF” button on the intelligent control terminal to open it and then long press “UV” button, it will enter the pairing mode with the display of 20s countdown. At the same time, double-click the “ON/OFF” button of the super air purifier (in the condition of power off), the intelligent control terminal will display “cor”, showing the pairing is successful. In case of display of “Err”, it means the failure of pairing and please repeat the above steps.

5. Operating Control Area


a. Timber

Short press or long press the “Timber” button to achieve the timing function when the main unit is turned on.

b. UV

Short press the “UV” button to turn on/off the sterilization function when the main unit is turned on.

c. Auto

Short press the “Auto” button to turn on/off the Automation mode, and the fan speed area of the display screen will show .

In the Automation mode, the main unit can automatically adjust the operating status according to the current indoor air quality.

▲ Note: In the Automation mode, short press the “Speed” button on the intelligent control terminal or short press the “ON/OFF” button on the main unit, it will automatically exit the Automation mode.

d. Sleep

Short press the “Sleep” button to enter/exit the Sleep mode when the main unit is turned on.

In the Sleep mode, the main unit is running in a low noise state, and both the air quality indicator light on the main unit and the display screen of the intelligent control terminal are off, while the light of the Sleep indicator on the intelligent control terminal is on.

e. Speed

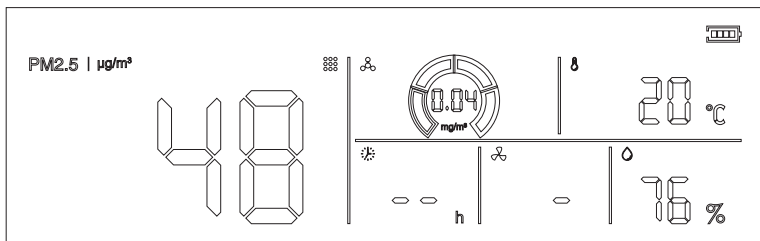
When the main unit is turned on. Short press the “Speed” button on the intelligent control terminal or short press the “ON/OFF” button on the main unit, the cycle of Level 1-2-3-4-5(JET)-4-3-2-1 of the fan speed will be activated.

f. Anion

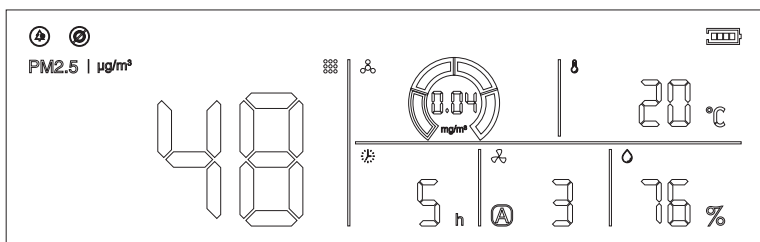
Short press the “Anion” button to switch the negative ion function when the main unit is turned on.

g. ON/OFF

·Long press the “ON/OFF” button to turn on/off the intelligent control terminal. The display screen of the intelligent control terminal is shown as below.



·Short press the “ON/OFF” button on the intelligent control terminal or long press such button on the main unit to turn on/off the main unit. The display screen of the intelligent control terminal is shown as below.



▲ Note: To ensure the accuracy of measurement data, please read after one minute after the main unit turns on.

6. Auto Shut Off

When the intelligent control terminal is powered on but the main unit is not powered off, the intelligent control terminal will automatically shut down after 40 minutes. (This function only works when the intelligent control terminal is only powered by battery)

IV. Maintenance

Make sure to turn off the power supply before maintenance of the product. In order to avoid electric shock, non-professionals are not allowed to disassemble the device. During maintenance, children should be cared for in case the product is used as a toy.

1. Clean Outer Cover

- The static electricity can cause dust accumulation. Please clean the outside of the outer covering in time, and it is recommended to clean it at least once a month.
- Disconnect the power supply, wipe it with a clean, soft, and moist sponge. Do not immerse in water or any other liquid to prevent liquid from penetrating into the device for causing possible risks and dangers.
- Do not clean any part of the device with abrasive, corrosive or flammable cleaners such as cleanser, alkaline detergent, diluent, bleach, alcohol, gasoline, or organic solvents.
- The device is equipped with negative ion release tip which is easy to adsorb dust. Please use a soft cloth with a small amount of detergent and clean water to wipe. The air inlet and outlet can use the brush to clean.

Remember not to touch the negative ion release tip, otherwise it will affect the normal operation!

2. Maintenance of Filter

- Do not use this product in an environment above 60 °C and above 60% RH.
- Please store this product in cool and dry place and don't put this product in humidity or temperature vary too high. Prohibit placing it outdoors.
- Depending on the air pollution level in the actual application environment, the service life of each filter will also be different. If the PM2.5 on the intelligent control terminal shows a large value and drops very slowly, or the chemical contaminant state is very poor or the filter has odor, please clean or replace the filter in time. The recommended service life of filter is one year.
- The methods of cleaning filter: Filter can not be washed. The vacuum cleaner or brush can be used to clean PM2.5 and larger particles, and then take the filter to a strong sun exposure. Part of the performance of filter can be restored. User can buy the filter from the designated distributor.
- **Recommend users clean the filter at least once a month. After long-time wet weather, Please remove the filter in time to clean and expose under the sun to avoid failure of filter.**

- **When replacing the filter, please remove the fastening screw at the bottom of the bottom cover and then unscrew the bottom cover of the product counterclockwise.**

- Please clean filter surface, put it under sunshine 8 hours and pack them in plastic bag if the filter will be not used for a long time.

3. Cleaning Power Plug

- Check the power plug regularly. Dust is accumulated on the power plug, which may cause the product to work abnormally due to poor electrical conductivity. Please wipe it with a dry cloth when disconnecting the power supply.
- If you do not use this product for a long time, please disconnect the power in time.
- Make sure to disconnect the power when cleaning, otherwise it may result in injury or electric shock.

4. Battery Maintenance of Intelligent Control Terminal

- If you do not use the intelligent control terminal for a long time, you need to charge the intelligent control terminal in time. It is recommended to charge at least once a month to prevent the battery from being damaged due to excessive battery discharge.
- Charging the intelligent control terminal with a power adapter not provided by the manufacturer may cause damage to the intelligent control terminal. It is recommended to use the original adapter for charging.

V. Safety Instructions

1. Precautions Before Use

- It is strictly forbidden to invert or tilt the device during handling.
- Non-professionals are not allowed to disassemble.
- The product using voltage is AC110-240V 50Hz/60Hz. When the voltage is unstable, please install the voltage regulator before use.
- **The intelligent control terminal must be preheated for 5 minutes for the first time to use.**

2. Main Unit

- Store in a well-ventilated place and avoid direct sunlight to prevent deformation, deterioration, or malfunction.
- Place on a dry, flat and stable surface to avoid unnecessary damage caused by toppling over.
- Please ensure that there is no shelter within 1.5m range to avoid the negative ions dust collector to contaminate the surface.
- Do not place directly under the air conditioner to avoid the condensation water to drop into the product.
- Do not place in places of oil, flammable gases or possible leakage to avoid possible fire caused by those being absorbed into the product.
- There is a high concentration of negative ions in the range of 1.5m around the small particle diameter negative ion purifier. The capacitance of the electronic devices within such range and those formed between the semiconductor devices will absorb a large amount of negative ions. Since some electronic products do not have a special relief device for electric charge, the negative charge will accumulate, which may cause damage to the electronic product. **Therefore, this product is required to keep at least 1.5 meters away from other electronic products (including the affiliated intelligent control terminal). At the same time, please try to avoid use the same socket with other products.**
- Do not place the product in an environment with heat, fire, moisture, dust, and abnormal temperature to avoid the power leakage to cause fire or electric shock.
- Do not place items at the top of the product to avoid objects to fall into the interior to cause possible damage.
- If the negative ion release tip is found to touch the vent hole, it is suggested to power off first, and then use the tweezers to remove the negative ion release tip from the vent hole, to ensure the normal operation.
- If the product will not be used for a long time, please unplug the power plug from the socket.
- Please use the affiliated accessories or the exclusive ones from AVICHE.

3. Intelligent Control Terminal

- Do not use the intelligent control terminal in an environment of strong air convection.
- If the intelligent control terminal will be used for a long time, it is recommended to use the adapter to supply power.

- Do not expose this device to the poison the intelligent control terminals, such as silicone and other adhesives, paints, chemicals, oils, and high concentrations of contaminated gases.
- Do not place the intelligent control terminal in a high concentration organic gas for a long time. If placed for a long time, It will cause sensor zero drift and the recovery will be very slow.
- Do not make this device strong shocks and vibrations (such as falling from high place).
- Do not put sharp objects such as pins into the monitoring hole to avoid damaging the device components.
- The formaldehyde sensor in the intelligent control terminal belongs to the electrochemical sensor. It needs to be excluded from other gas interference during use. It may be sensitive to harmful organic volatiles such as sulfides and alcohols. For details, please refer to the attached table “Formaldehyde Sensor Common Gas and Its Interference Component Table”. Alkaline gas and other alkaline gases are harmful to it; Common substances in life include alcohol, female cosmetics, toilet water, air freshener, glass water, smoke, soot, etc., which have a great influence on the sensor, so the intelligent control terminal should not be placed on the above gas environment for a long time.
- Do not place and use this device at high dust pollution environment to avoid block the ventilation components.
- Do not use the intelligent control terminal in an environment with extreme temperature and humidity. The temperature and humidity sensor is installed inside the intelligent control terminal and please use it in an environment with good air circulation to ensure the accuracy of the data. During the charging process, the temperature and humidity sensor display values will be biased.

4. Special Warnings

This product can not be used or maintained by persons with physical disabilities, mental disorders or lack of relevant experiences and skills, including children, unless they are under the supervision of other security officers or have been provided with product descriptions.

a. Main Unit

- Do not use the product as a ventilation fan.
- The product can not filter out carbon monoxide. If it is used in an environment where carbon monoxide may leak, it is prone to burn and may cause fire.

- Do not use pesticides or sprays while running. In case of use of pesticides or sprays, please let the indoor air circulate fully, otherwise the accumulation of pharmaceutical ingredients may be adverse to human health.

b. Power Cord and Power Plug

Power Plug

Stop to use and unplug the power cord immediately in the following cases, to avoid electric shock, fire or smoke.

- * The product stops running when the power cord is moving.
- * Malfunction of any control button.
- * The power cord or the power plug is abnormally hot.
- * A scorched smell is smelt.
- * Abnormal sound or vibration.

Power Cord

Do not cut, modify, over-twist, screw, and squeeze the power cord, put the power cord close to the heat source or put heavy objects on it. Otherwise the power cord may be damaged and cause a fire or electric shock.

▲ Note: If the power cord is damaged, it must be replaced by the maintenance department of the manufacturer or a specialist in order to avoid danger, unless it may cause a fire or electric shock.

c. Inlet and Outlet

- Do not put fingers or metal objects in the air inlet, outlet or other slits to avoid contact with the interior of the product for possible electric shock or injury.

d. Negative Ions

- When the human body is in an environment of high concentration of negative ions, if the air is relatively dry, together with the insulation of the wood floor, a part of the negative ions (negative charge) might gather in the clothing or skin surface and release while in touch with the electric conductors or human body to bring a feeling of pinprick or electric shock. Such a phenomenon may cause frightening but has no danger and damage. Such discharge is only a few kilo-volts and lasts only 1/30 of a second, bringing no damage to the human body. The intensity of such discharge is much lower than the friction of clothes or the moving of human body on the carpet, which can produce tens of thousands of volts or even 100,000 volts of voltage.

VI. Troubleshooting Guide

Trouble	Analysis	Solution
The device can not run	The power plug might be pulled out of the power socket	Re-plug the power cord
	Whether the main unit is tilted	Place flat
The display screen of the intelligent control terminal can not be displayed	Whether the device is powered on	Long press the screen button to turn on
	Whether the battery is over discharged	Connect the charger to charge
The display data on the intelligent control terminal has no change or the button has no response	The device is crashed	Please use a needle-like object to click the "Reset" switch in the back side of the Unit, and then long press the "ON/OFF" switch to Power on
The air quality indicator has displayed "Red" or the value of PM2.5 stays too high in automatic operation	The sensors may be affected by water vapor, alcohol, oil and smoke, sprays, etc.	Wait for the intelligent control terminal to restore normal state for air monitoring
The peculiar smell is difficult to be eliminated	Inspect the filter for failure or release odor due to adsorption of contaminants	Replace the Filter
The dirt in the air is difficult to be eliminated, and the noise becomes larger during operation	Check whether the filter fails to function	Replace the Filter
The air purifier has no response to existing indoor air pollution	The location of the device might not be reasonable, causing device not easy to inhale air pollutants	Change the position of the device and adjust the fan speed to the highest level
Why the indoor air pollution concentration continues to be high	Check whether the doors and windows are closed, or whether there is a source of pollutants in the room	Remove and handle the sources of pollutants
Why the air volume becomes smaller after a period of use	It is affected by the environment. Long-term use in the space of high-density dust results in the accumulation of dust in the filter to reach its utmost usage limit	Clean or replace the filter

**If the trouble can not be solved, please contact the suppliers or distributors.
Do not disassemble the device by yourself**

VII. After-sales Service and Warranty Card

1. Implement the national policy of Three Guarantees.
2. Free maintenance will be provided by AVICHE in case of quality problems within one year from the date of purchase. In case of such issue over one year, the user can seek services by right of invoice and warranty card to the after-sales service departments, branch offices and distributors of AVICHE, where the spare parts for maintenance will be provided with reasonable charges. If the user can not provide invoice, the warranty period will be identified by extension of 13 months from the date of production.
3. The followings are not covered by the warranty:
 - 3.1 The Vulnerable Consumables, such as filter. **Please check after purchase the outside of the filter before use for possible damage from transportation to make it unusable. In such case, AVICHE will provide free maintenance.**
 - 3.2 The liquid leaked by the users enters into the device to cause abnormal operation.
 - 3.3 The trouble caused by unauthorized demolition, repair, or transformation of the device.
 - 3.4 The trouble caused by accidental falling down in use or handling.
 - 3.5 The trouble caused by the failure to operate in accordance with the correct operations in the user manual.
 - 3.6 The damage caused by unpredictable natural disasters (such as fire, earthquakes, floods, etc.).

AVICHE remains the right to change the technology and appearance of the products and is subject to change without prior notice. Thanks for the understanding.

Model	Y4A		
Warranty Period	From	Y/ M/ D	to Y/ M/ D
Purchaser	Name		
	Address		
	Phone		
Sales Unit	Name		
	Address		
	Phone		
After-sales Service Instructions	<p>1. Warranty</p> <p>a. Since the date of purchase, the warranty period will last for 1 year, and free maintenance will be provided (except for force majeure and human factors).</p> <p>b. The affiliated gifts will not be covered within the warranty.</p> <p>c. Proof: Purchase records, shopping certificate, and invoice.</p> <p>2. Spare Parts</p> <p>Spare parts will be provided free of charge within the warranty period, and is subject to charges out of warranty period.</p> <p>3. Contact Information for After-sales Service</p> <p>Phone: +86-400-800-9850</p>		

· Attached List

Formaldehyde Sensor Common Gas and Its Interference Component Table

Gas	Concentration/ppm	Formaldehyde Sensor
Formaldehyde	5	5
Benzene	10	0.1
Toluene	10	0.46
Acetic acid	200	0.52
Alcohol	100	40.6
Hydrogen sulfide	50	3
Carbon monoxide	200	0.64

· Air Quality Indicator - PM2.5 value



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